查询TME0505S供应商

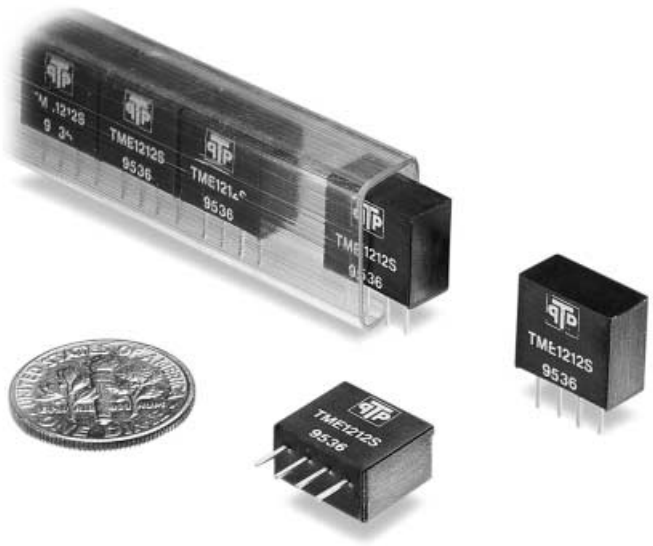
TRACO POWER

DC/DC Converter

TME Series 1 Watt

Features

- Single-in-Line Package (SIP)
- I/O-Isolation 1‘000 VDC
- High Efficiency up to 80%
- Operating Temperature –40°C to +85°C
- Pin-compatible with other Manufacturers
- 100% Burn-in (8 h)
- 2 Year Product Warranty



The TME series is a range of sub-miniature , isolated DC/DC-converters in a SIP-package, which requires only 0.7 cm^2 of board space. They provide a cost effective solution to generate supplementary, isolated voltages. Full SMD-design and a 100 % production test of parameters ensure a high reliability of this product.

Models

Ordercode	Input voltage	Output voltage	Output current max.	Efficiency typ.
TME 0505S	5 VDC ±10%	5 VDC	200 mA	70 %
TME 0509S		9 VDC	110 mA	76 %
TME 0512S		12 VDC	80 mA	77 %
TME 0515S		15 VDC	65 mA	78 %
TME 1205S	12 VDC ±10%	5 VDC	200 mA	71 %
TME 1509S		9 VDC	110 mA	77 %
TME 1212S		12 VDC	80 mA	79 %
TME 1215S		15 VDC	65 mA	80 %
TME 2405S	24 VDC ±10%	5 VDC	200 mA	70 %
TME 2409S		9 VDC	110 mA	76 %
TME 2412S		12 VDC	80 mA	79 %
TME 2415S		15 VDC	65 mA	79 %

Input Specifications

Input current no load / full load	5 Vin models	30 mA / 290 mA typ.
	12 Vin models	15 mA / 120 mA typ.
	24 Vin models	10 mA / 60 mA typ.
Surge voltage (1 sec. max.)	5 Vin models	9 V max.
	12 Vin models	18 V max.
	24 Vin models	30 V max.
Reverse voltage protection		0.3 A max.
Reflected input ripple current		can be reduced by ext. 1–3.3 µF polyester film capacitor
Input filter		Internal capacitors

Output Specifications

Voltage set accuracy		± 3 %
Regulation	– Input variation	± 1.2 % / 1 % change Vin
	– Load variation 20 – 100 %	± 10 % max.
Ripple and noise (20 MHz Bandwidth)		150 mV pk-pk max.
Temperature coefficient		± 0.02 % / °C
Short circuit protection		limited 1 sec. max.
Capacitive load		33 µF max.

General Specifications

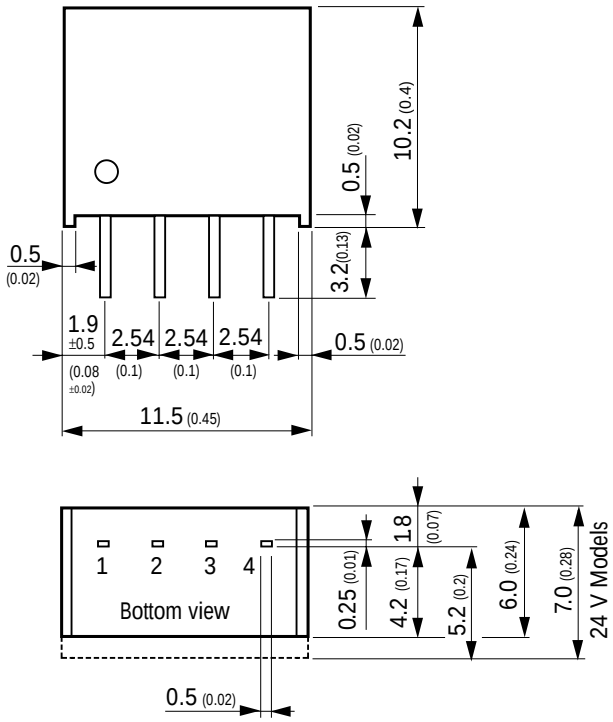
Temperature ranges	– Operating	– 40 °C ... +85 °C
	– Case temperature	+ 95 °C max.
	– Storage	– 40 °C ... +105 °C
Humidity (non condensing)		95 % rel H max.
Reliability, calculated MTBF (MIL-HDBK-217 E)		>2'000'000 h @ 25 °C
Isolation voltage	Input / Output	1'000 VDC
Isolation capacity	Input / Output	60 pF typ.
Isolation resistance	Input / Output	>1'000 Mohm
Switching frequency		90 kHz typ. (Frequency modulation)
Frequency change over line and load		± 30 % max.

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Physical Specifications

Case material		non conductive black plastic (flammability to UL 94-V0)
Package weight	5 Vin & 12 Vin models 24 Vin models	1.3 g (0.05 oz) 1.7 g (0.06 oz)
Soldering temperature		max. 260°C / 10 sec

Outline Dimensions mm (inches)



Pin-Out

Pin	Single
1	–Vin (GND)
2	+Vin (Vcc)
3	–Vout
4	+Vout

Tolerances ±0.25 (0.01)
pins ±0.05 (0.002)

Specifications can be changed without notice

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